Draft Report (10/01/2015)

INITIAL REVIEW ENGINEERING REPORT

MCAN: J15-0034,

ENGINEER: Macek / JAS

SUBMITTER:



MICROORGANISMS:

Recipient/host (p. 11):

i. Saccharomyces cerevisiae

Donors (p. 13, 17):



GEMs (p. 17):

The GEMs are referred to as: S. cerevisiae strains



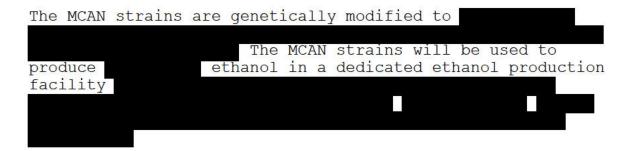
PV (p. 94):



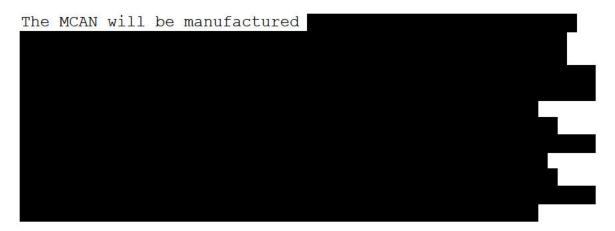




USE:



SUMMARY:



NOTES AND KEY ASSUMPTIONS

The 1997 Biotechnology Generic Scenario was referenced in this IRER. The submission also referenced the 1991 EPA report "Analysis of Environmental Releases and Occupational Exposure in Support of Proposed TSCA 5(h)(4) Exemption." Hereinafter, this will be referred to as Reilly, 1991.







Sporulation (p. 74)

It is not expected that the genetic modifications to the MCAN strains [] would be expected to increase sporulation compared to the unmodified parental strain [] , and therefore would not be expected to have an increase in dispersion via insect vectors.

EPA did not assess sporulation releases, consistent with past case

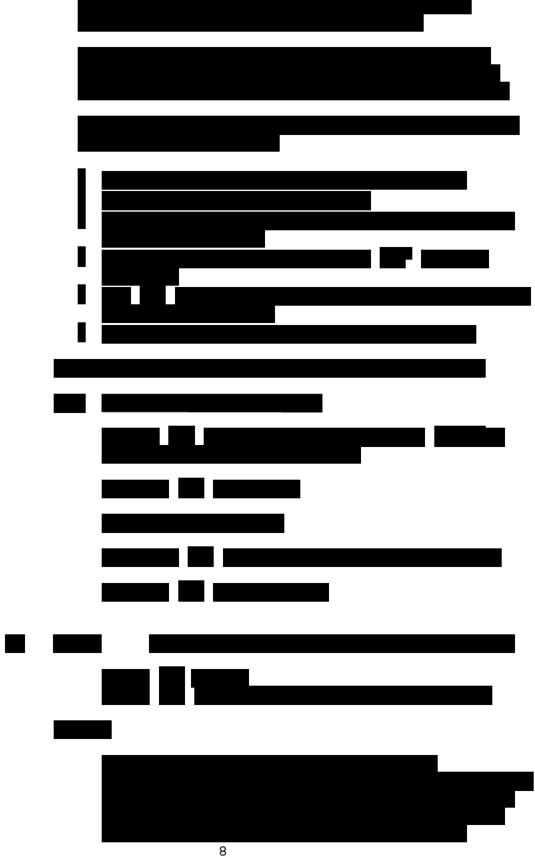
INITIAL REVIEW ENGINEERING REPORT MCAN: J15-0034C PROCESSING: Site/Location: Days/yr: Basis: PROCESS DESCRIPTION

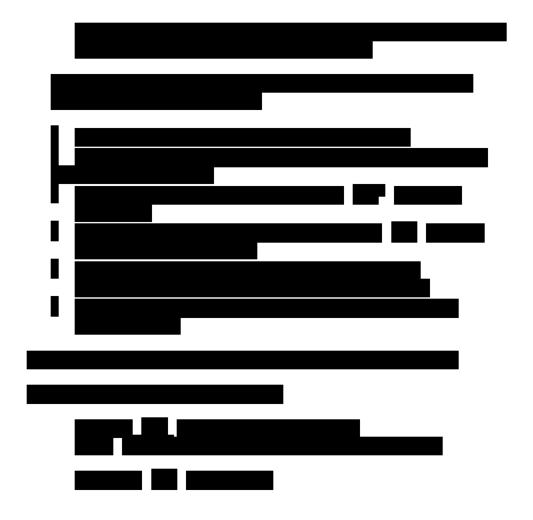


ENVIRONMENTAL RELEASE SUMMARY

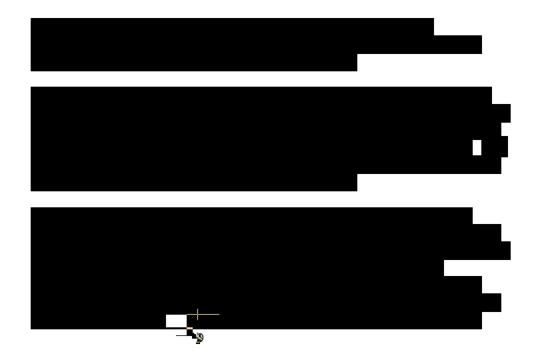


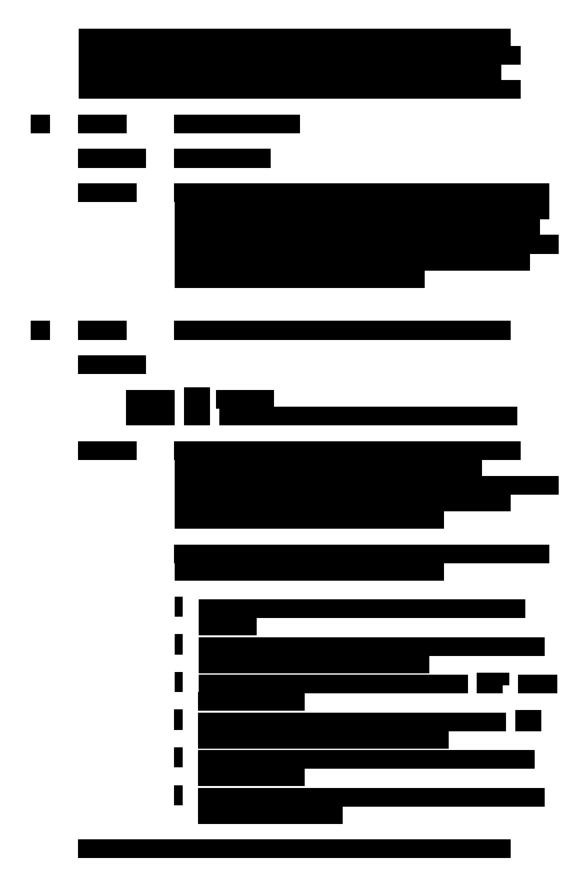
AIR
1)



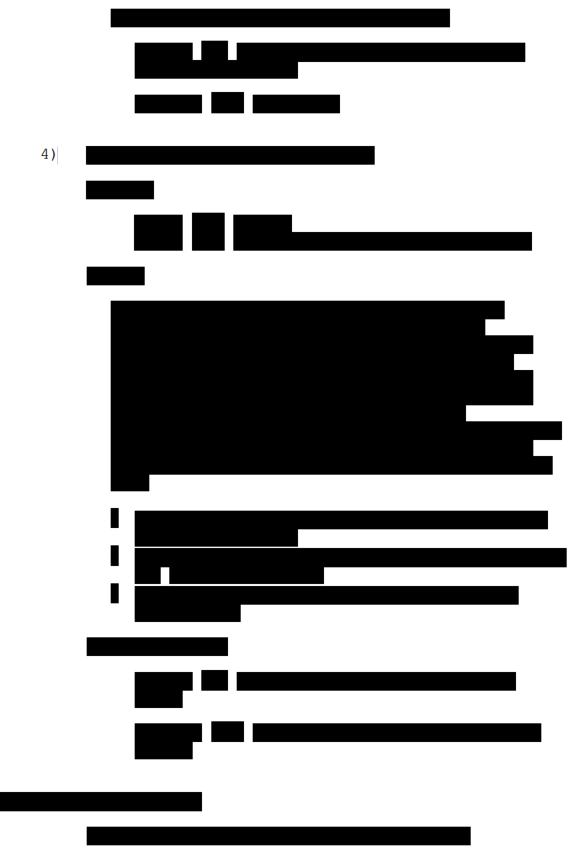


WATER











OCCUPATIONAL EXPOSURE

Number of Workers:

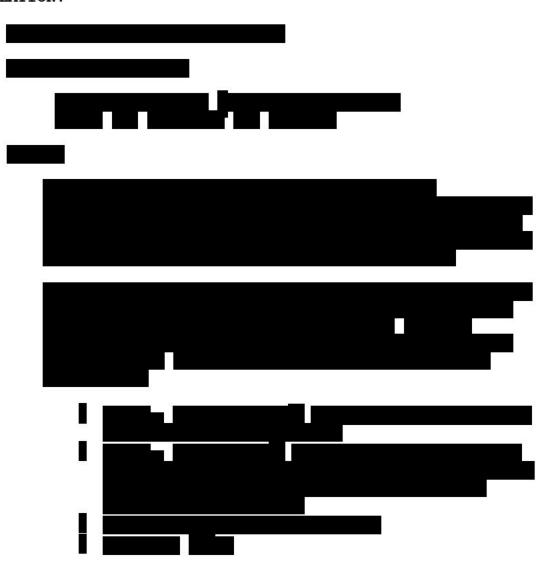
Days/site-yr:
Basis:

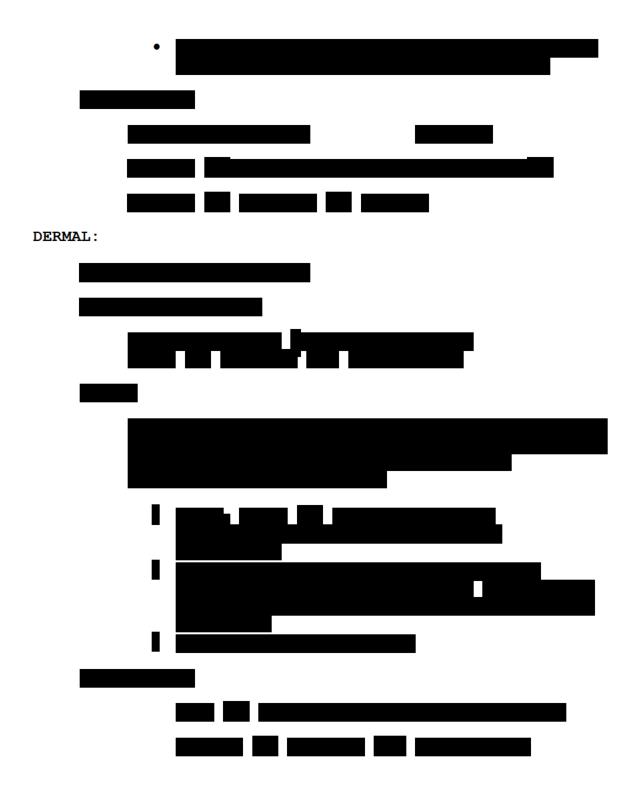
PPE:

Table 1: Worker Activities per Shift (submission, p.

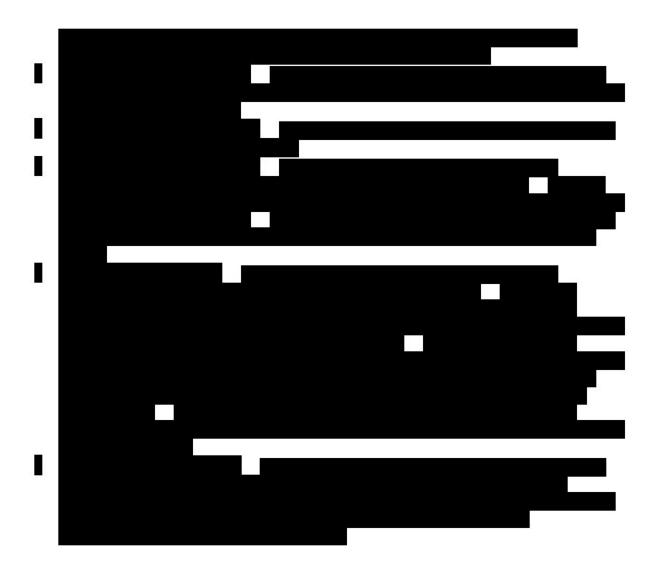
	# of Workers		Maximum Freq. of	Work	Maximum Duration Exposed	
Activity	per Activity	PPE/Eng. Controls	Activity (Days)	Duration (Hrs)	Hr/Day	Day/Yr
		3		2		

INHALATION:



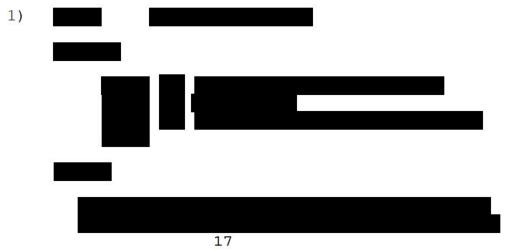


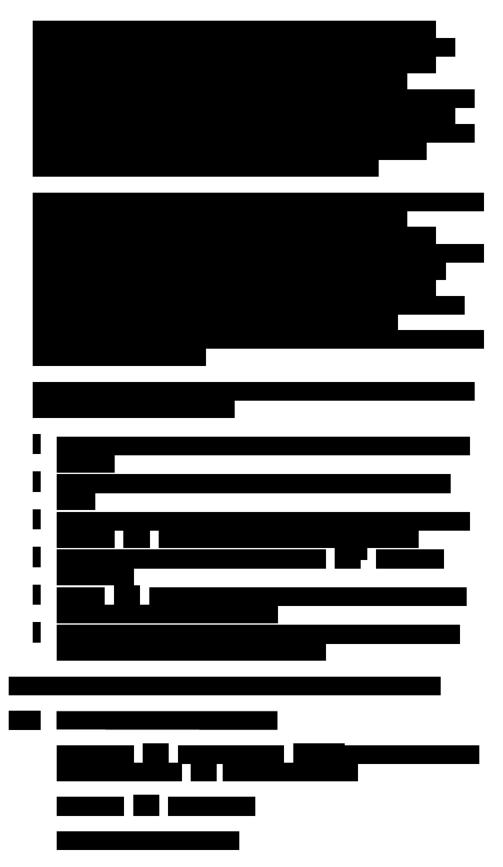
INITIAL REVIEW ENGINEERING REPORT MCAN: J15-0034C USE: Number of Sites/Locations: Days/site-yr: Basis: PROCESS DESCRIPTION

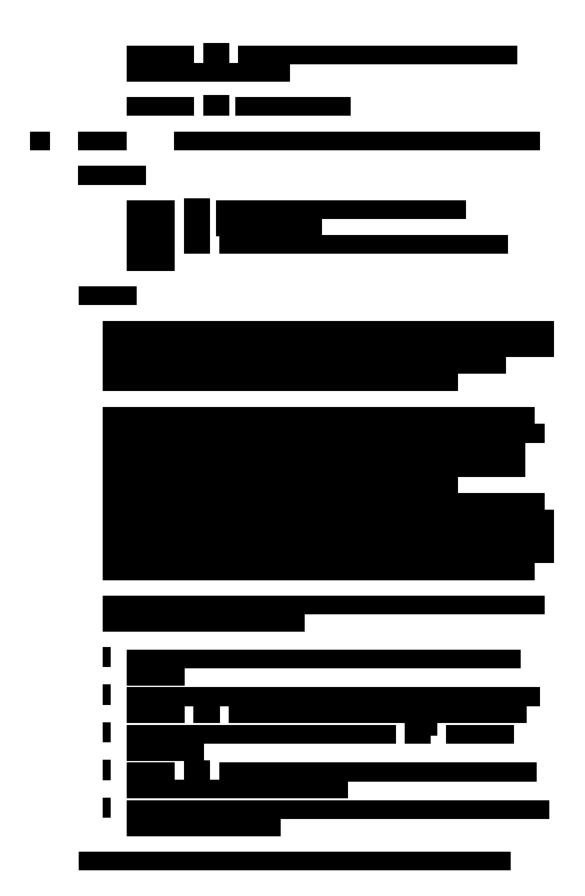


ENVIRONMENTAL RELEASE SUMMARY

AIR



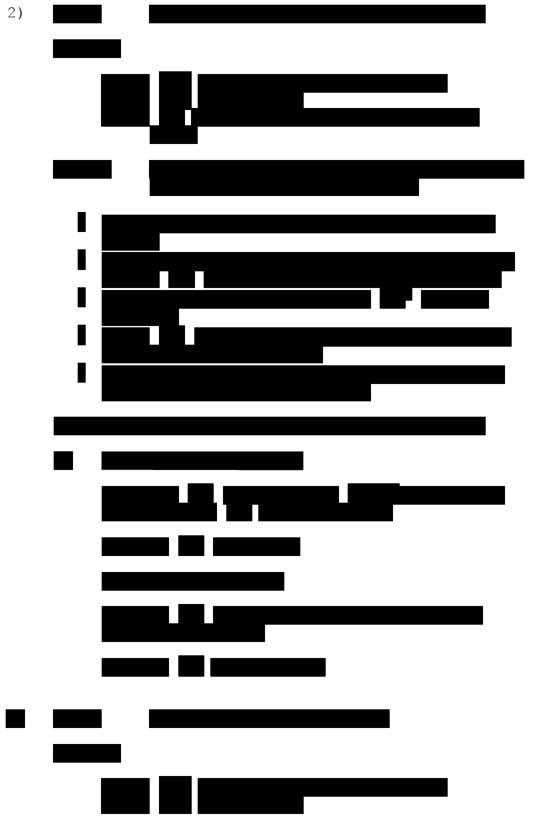


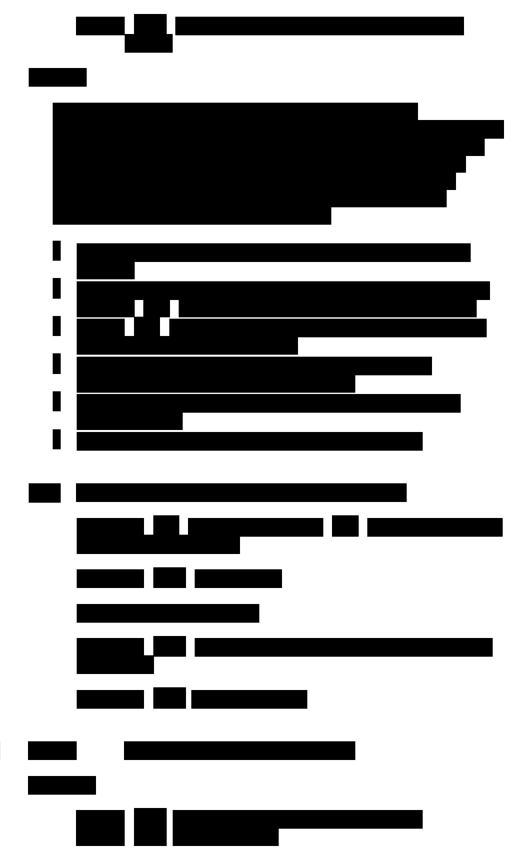


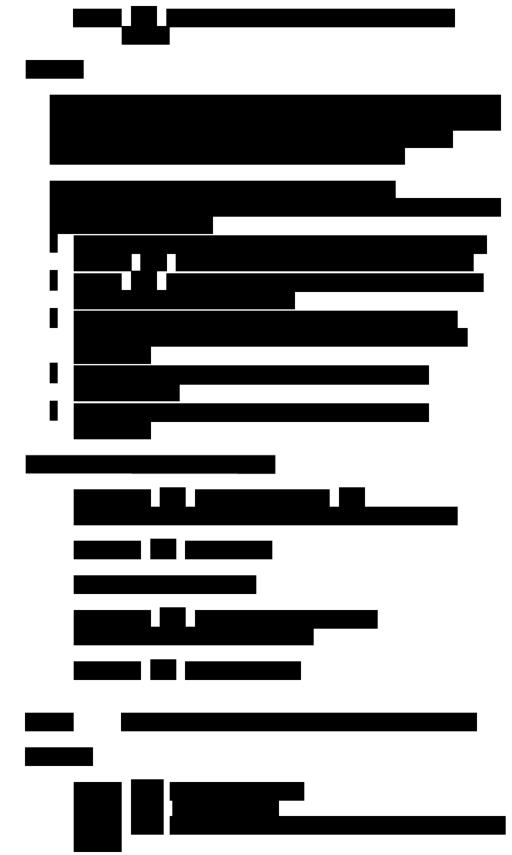


WATER



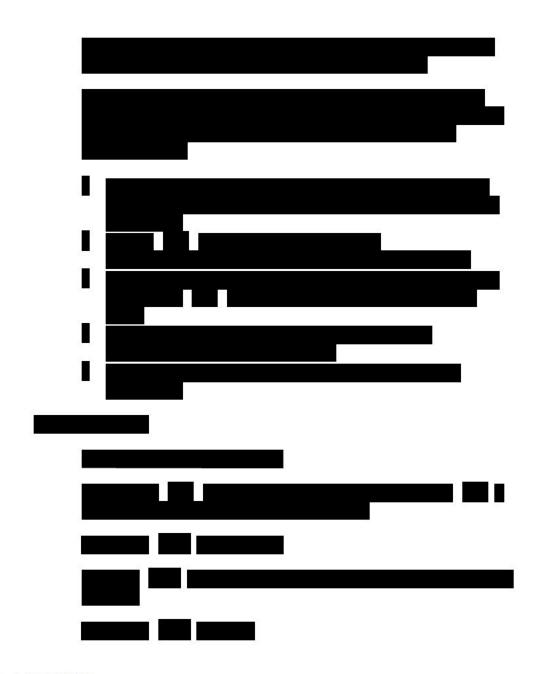












OCCUPATIONAL EXPOSURE



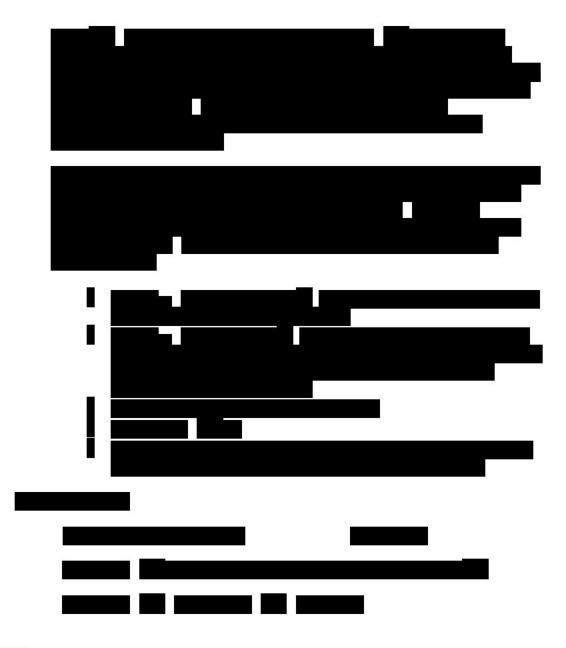


Table 2: Worker Activities per Shift (submission, p. 100)

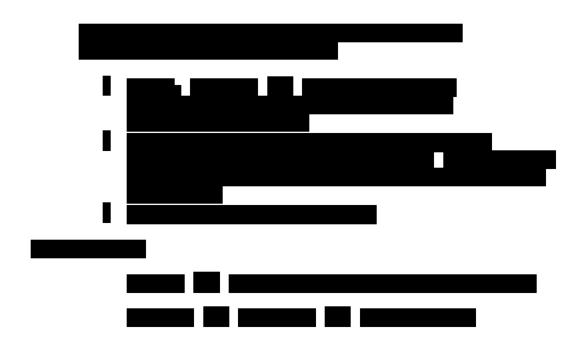
	# of Workers		Maximum Freq. of	Work	Maximum Duration Exposed	
Activity	per Activity	PPE/Eng. Controls	Activity (Days)	Duration (Hrs)	Hr/Day	Days/Yr
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				, .		

INHALATION:





DERMAL:



Contact Report MCAN: J15-0034C

Page 1 of 1

Submitter:

Date: September 17, 2015

Person Contacted: Affiliation: Telephone:



Caller: Jason Sese Affiliation: ERG for EPA

